



Celestial Mechanics

April 17-22, 2004



MEALS

(Saturday dinner to Thursday lunch are included in workshop)

Breakfast (Continental): 7:00 – 8:25, 2nd floor lounge, Corbett Hall, Sunday-Thursday

*Lunch (Buffet): 12:00 – 13:30 pm, Donald Cameron Hall, Sunday-Thursday

*Dinner (Buffet): 17:30 – 19:30 pm, Donald Cameron Hall, Saturday-Wednesday

Coffee Breaks: As per daily schedule, 2nd floor lounge, Corbett Hall

***Please remember to scan your meal card at the host/hostess station in the dining room for each lunch and dinner.**

MEETING ROOMS

All lectures will be held in Max Bell 159. Please note that the meeting space designated for BIRS is the lower level of Max Bell, Rooms 155-159. Please respect that all other space has been contracted to other Banff Centre guests, including any Food and Beverage in those areas.

SCHEDULE

Saturday, April 17---arrival

17:30-19:30 Dinner

From 19:30 Informal Gathering in 2nd floor lounge, Corbett Hall

Sunday, April 18

7:00-8:25 Breakfast

8:15-8:30 A welcome word from the organizers and from BIRS

8:30-9:15 Alain Chenciner: Rotating eights

9:30-10:15 Ernesto A. Lacomba: Symbolic dynamics in the rectilinear R3BP

10:30-11:00 Coffee

11:00-11:45 Montserrat Corbera: Global existence of subharmonic orbits in the SP

12:00-13:00 Lunch

13:00-14:00 Guided tour of the Banff Centre; meet in 2nd floor lounge, Corbett Hall

14:00-14:30 Break

14:30-15:15 Richard Montgomery: Fitting hyperbolic pants to a 3BP

15:30-16:00 Coffee

16:00-16:45 Dan Offin: Variational-stability method for some nBPs

17:00-17:30 Break

17:30-19:30 Dinner

Monday, April 19

7:00-8:30 Breakfast
8:30-9:15 Ernesto Perez-Chavela: Symmetrical central configurations in the 4BP
9:30-10:15 Ken Meyer: Elliptic central configuration solutions of the nBP
10:30-11:00 Coffee
11:00-11:45 Patricia Yanguas: Dynamics of charged particles in planetary magnetospheres
12:00-12:10 Group photo; meet on the front steps of Corbett Hall
12:10-13:30 Lunch
13:30-14:30 Break
14:30-15:15 Alain Albouy: New hidden symmetries in the Kepler problem and Lambert's theorem
15:30-16:00 Coffee
16:00-16:45 Gareth Roberts: Linear stability analysis of the figure-eight orbit
17:00-17:30 Break
17:30-19:30 Dinner

Tuesday, April 20

7:00-8:30 Breakfast
8:30-9:15 Jaume Llibre: On the families of periodic orbits in the SP
9:30-10:15 Chris McCord: Collinear blow-ups and integral manifolds of the spatial nBP
10:30-11:00 Coffee
11:00-11:45 Joe Gerver: Infinite spin and non-collision singularities
12:00-13:30 Lunch
13:30-14:30 Break
14:30-15:15 Manuele Santoprete: Qualitative properties of 2BPs with anisotropic potentials
15:30-16:00 Coffee
16:00-16:45 Ilias Kotsireas: Symmetries of polynomial and differential equations
16:45-17:30 Break
17:30-19:30 Dinner

Wednesday, April 21

7:00-8:30 Breakfast
8:30-9:15 Jeff Xia: Action-minimizing periodic and quasi-periodic solutions of the nBP
9:30-10:15 Richard Cushman: Monodromy in the swing spring
10:30-11:00 Coffee
11:00-11:45 Marshall Hampton: New central configurations in the 5BP
12:00-13:30 Lunch
13:30-17:30 Free afternoon (trips, discussions, relaxation etc.)
17:30-19:30 Dinner

Thursday, April 22

7:00-8:30 Breakfast
8:30-9:15 Don Saari: Analysing central configurations
9:30-10:15 Ed Belbruno: Chaos with weak ballistic capture, and low energy lunar transfer

10:30-11:00 Coffee

11:00-12:00 Proposal and discussion of themes for a future Banff Meeting in celestial mechanics

12:00-13:30 Lunch

From 13:30 Departure